

**Safety Data Sheet**  
29 CFR 1910.1200

**Section 1: Company and Product Identification**

**Product Name:** Potassium Tetrachloroaurate (III)

**Product Code:** 2038

**Company:** Colonial Metals, Inc.  
Building 20  
505 Blue Ball Road  
Elkton, MD 21921 United States  
Company Contact: EHS Director  
Telephone Number: 410-398-7200  
FAX Number: 410-398-2918  
E-Mail : info@colonialmetals.com  
Web Site: www.colonialmetals.com  
Supplier Emergency Contacts & Phone Number

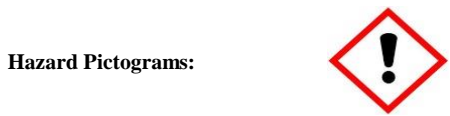


www.colonialmetals.com

**Emergency Response:**  
Chemtrec: 800-424-9300  
World Wide - Call COLLECT to U.S: 703-527-3887

**Section 2: Hazards Identification**

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**Signal Word:** Warning

**Hazard Category:** Sensitization, skin Cat 1  
Skin corrosion/irritation Cat 2  
Acute tox, oral Cat 4  
Acute tox, inh. Cat 4

**Hazard Statements:** H317: May cause an allergic skin reaction  
H315: Causes skin irritation  
H302: Harmful if swallowed  
H332: Harmful if inhaled  
  
P260: Do not breathe dust/fume/gas/mist/vapors/spray  
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove  
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P405: Store locked up  
P501: Dispose of contents/container in accordance with local/regional/national/international rules.

**Hazards not otherwise classified:** To the best of our knowledge, these chemical, physical & toxicological properties have not been thoroughly investigated. Avoid elevated temperature. Product incompatible with mineral acids and organic reducing agents.  
May decompose chlorine vapors.

**Section 3: Composition / Information on Ingredients**

Hazardous substance (name)	Hazard Category	CAS#	Weight %
Potassium Tetrachloroaurate (III)	Irritant	13682-61-6	98
<b>Product Name:</b> Potassium Tetrachloroaurate (III) <b>Chemical Family:</b> Platinum <b>Chemical Formula:</b> KAuCl <sub>4</sub>			

**Section 4: First Aid Measures**

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**General Info:** Ensure proper ventilation. Material is irritating to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled

**Notable Exposure symptoms:** Irritation to skin, eyes and areas of contact.

**If ingested:** Rinse mouth. Seek immediate medical attention. Clear the airway and administer artificial respiration if not breathing.  
If swallowed, do not induce vomiting unless directed to do so by medical personnel.

**If inhaled:** Remove the victim from the contaminated area while protecting yourself from exposure by wearing an appropriate respirator. Put a similar respirator on the victim if possible. Get medical attention immediately.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Get immediate medical attention.

**Skin contact:** Take off immediately all contaminated clothing. Rinse with water thoroughly. Get immediate medical assistance if irritation develops or persists.

**Additional Info:** Observe for any symptoms for several hours after exposure. Follow up with medical attention if symptoms develop.

**Section 5: Fire Fighting Measures**

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**General Info:** Use proper safety equipment. If this product is involved in a fire Hydrogen chloride and metal oxide fume can be released.

**Extinguishing Method / Equipment:** Use CO2 (Carbon Dioxide), dry chemical, or foam.

**Hazardous Decomposition Info:** Constituents associated with burning / combustion are to be considered toxic. Firefighters should wear self-contained breathing apparatus and full protective gear.

Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.  
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

**Section 6: Accidental Release Measures**

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**Personal precautions, protective equipment and procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment (SCBA) and clothing during clean-up. Avoid breathing vapor. Ventilate area if easy to do so and wash spill site after clean up is complete. Contact local authorities if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Containment Equipment and Procedures:** Large Spills: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste. Ensure adequate ventilation

**Cleanup Procedures:** Collect all contaminated media, or other cleanup materials into a waste receptacle. If cleaning surface is necessary, utilize vacuum cleaner, provided adequate ventilation is available.

**Section 7: Handling and Storage**

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**Safe Handling Precautions:** Do not handle until all safety precautions have been read and understood. Keep containers tightly closed. Ensure adequate ventilation. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment and wash thoroughly after handling.

**Work/Hygienic Practices:** Always use good personal hygiene after handling

**Recommendations for Storage:** Do not store directly on ground. Store in original vented container

**Other Precautions:** 0.01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode.

**Section 8: Exposure Control / Personal Protection**

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**General / Engineering Controls:** Ventilation: Local Exhaust: Required in handling area  
 Mechanical: Desirable to insure concentration of material below TLV/TWA levels  
 Other: Closed ventilation system (Laboratory Fume Hood)

**Work Clothing:** Protective work clothing which covers skin and prevents exposures. Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing.

**Eye/face protection:** Wear safety glasses with side shields or goggles or face shield.

**Skin Protection:** Wear chemical resistant gloves.

**Respiratory Protection:** NIOSH approved chemical cartridge respirator for acid gas/chlorine (42 CFR part 84) and self-contained breathing apparatus with full face shield.

**Additional Information:** None

**Section 9: Physical and Chemical Properties**

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<b>State:</b> Solid	<b>Melting Point:</b> 357 °C	<b>Freezing Point:</b> N/A
<b>Color:</b> Yellow to Orange Crystalline	<b>Boiling Point/Range:</b> N/A	<b>pH:</b> Acidic
<b>Molecular Wt.</b> 377.88	<b>Odor:</b> Characteristic odor	<b>Water Solubility:</b> Soluble
<b>Evaporation rate:</b> N/A	<b>Flash Point:</b> N/A	<b>Part. Coeff (n-octanol/water Vapor Pressure):</b> N/A
<b>Upper Flam Limits:</b> N/A	<b>Lower Flam Limits:</b> N/A	<b>Autoignition Temp:</b> N/A
<b>VOC Content (lbs/gal):</b> N/A	<b>Viscosity:</b> N/A	
<b>Specific Gravity:</b> N/A		

**Section 10: Stability and Reactivity**

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**General:** This product is stable and non-reactive under normal conditions of use. Product is not subject to hazardous polymerization. Avoid open flame and ignition sources.

**Conditions To Avoid (Stability):** Light and moisture

**Incompatible materials:** . Avoid elevated temperature. Product incompatible with mineral acids and organic reducing agents. May decompose chlorine vapors.

**Decomposition products:** Chlorine gas

**Section 11: Toxicological Information**

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**General Information:** Harmful if swallowed.

**Toxicological Information (product):** To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated.

**Likely Routes of Exposure:** Eye Contact  
 Skin Contact  
 Inhalation  
 Ingestion - possible, but considered unlikely.

**Toxicological Information (contained substances)**

**Carcinogenicity or mutagenicity:** No data available

**Sensitization:** May cause an allergic skin reaction

**Section 12: Ecological Information**

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**General information:** To the best of our knowledge, the chemical, physical, and toxicological properties of this compound have not been thoroughly investigated

**Aquatic toxicity:** No Data Available

**Degradation / Mobility info:** No specific data available.

**Bioaccumulative potential:** No specific data available.

**Section 13: Disposal Information**

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**Product disposal:** Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation

**Container disposal:** Treat empty containers with extra care. Consult waste contractor.

**Other considerations:** NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

**Section 14: Transport Information**

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**DOT:** Non- Hazardous

**IMO/IMDG:** Inquire for further transport information.

**IATA:** Same as DOT, always consult IATA manual before shipping

**OTHER:** Inquire for further transport information.

**Section 15: Regulatory Information**

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**TSCA:** All ingredients of this product are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**SARA Section 313 Notification:** This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372

**Canadian Regulatory Information:** This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS containers all the information required by the CPR

DSL: No

NDSL: No

**Other International Regulations:** None

**Section 16: Other Information**

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**NFPA Rating**

Health: 1

Fire: 0

Reactivity: 0

**HMIS Rating**

Health: 1

Fire: 0

Reactivity: 0

Personal

Protection: C

**Disclaimer:** In compliance with the OSHA Hazard communication Standard, 2.9 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.

*It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.*

*Colonial Metals, Inc. makes no presentation as to the accuracy of the information in the MSDS. The information is believe to be correct; however, you (the customer), should preform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.*

Colonial Metals, Inc.

**SDS Author:** John Kerchner

**Version Date:** 9/8/2015